The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claims 1 - 16 (canceled)

- 17. **(original)** A low water peak, hydrogen resistant optical waveguide fiber, the fiber comprising:
  - a silica containing glass core; and
  - a glass cladding surrounding the silica containing glass core;

wherein the optical waveguide fiber exhibits an optical attenuation at a wavelength of about 1383 nm which is less than or equal to an optical attenuation exhibited at a wavelength of about 1310 nm; and

wherein the optical waveguide fiber exhibits a maximum hydrogen induced attenuation change of less than about 0.03 dB/km at a wavelength of 1383 nm after being subjected to a 0.01 atm hydrogen partial pressure for at least 144 hours.

- 18. **(original)** The optical waveguide fiber of claim 17, wherein the optical attenuation exhibited at a wavelength of about 1383 nm is at least 0.04 dB/km less than the optical attenuation exhibited at a wavelength of about 1310 nm.
- 19. **(original)** The optical waveguide fiber of claim 18, wherein the optical attenuation exhibited at a wavelength of about 1383 nm is less than or equal to about 0.35 dB/km.
- 20. **(original)** The optical waveguide fiber of claim 19, wherein the optical attenuation exhibited at a wavelength of about 1383 nm is less than or equal to about 0.31 dB/km.

## 21. (canceled)

22. **(previously presented)** The optical waveguide fiber of claim 17, wherein the optical waveguide fiber exhibits a maximum hydrogen induced attenuation change of less than about 0.03 dB/km at a wavelength of about 1383 nm after being subjected to a 0.01 atm hydrogen partial pressure for at least 336 hours.

- 23. **(previously presented)** The optical waveguide fiber of claim 17, wherein the optical waveguide fiber exhibits an optical attenuation of less than about 0.36 dB/km at each wavelength within a wavelength range from about 1300 nm to about 1600 nm.
- 24. **(previously presented)** The optical waveguide fiber of claim 17, wherein the core is doped with germania.
- 25. **(previously presented)** The optical waveguide fiber of claim 17, wherein the core and the cladding each have a respective refractive index which form a step-index profile.
- 26. (canceled)
- 27. (canceled)
- 28. **(previously presented)** The optical waveguide fiber of claim 17, wherein the cladding glass comprises silica.
- 29. (previously presented) The optical waveguide fiber of claim 17, wherein the fiber contains no fluorine-based dopant.
- 30. (previously presented) The optical waveguide fiber of claim 17, wherein the glass core contains no fluorine-based dopant.
- 31. **(previously presented)** The optical waveguide fiber of claim 17, wherein the glass cladding contains no fluorine-based dopant.
- 32. **(previously presented)** The optical waveguide fiber of claim 17, wherein the fiber is formed from an OVD process.
- 33. **(previously presented)** The optical waveguide fiber of claim 17, wherein the silica containing core glass includes a weighted average OH content of less than 1 ppb.
- 34. (canceled)

## 35. (canceled)

36. (original) An optical waveguide fiber comprising:

a core region having a centerline and at least two segments having a positive relative refractive index, a refractive index profile, and an inner and an outer radius, the radii being measured with reference to the centerline;

a clad layer surrounding and in contact with the core region, the clad layer having a relative index and a refractive index profile;

wherein the optical waveguide fiber exhibits an optical attenuation at a wavelength of about 1383 nm which is not more than 0.10 dB/km above an optical attenuation exhibited at a wavelength of about 1310 nm.

37. **(previously presented)** The optical waveguide fiber of claim 36 wherein the optical waveguide fiber exhibits a zero dispersion at a wavelength greater than 1310 nm.

## 38. (canceled)

- 39. **(previously presented)** An optical fiber communication system comprising the fiber of claim 17.
- 40. (new) The optical waveguide fiber of claim 17, wherein the optical waveguide fiber exhibits a maximum hydrogen induced attenuation change of less than about 0.03 dB/km at a wavelength of 1383 nm after being subjected to a 0.01 atm hydrogen partial pressure for 144 hours.
- 41. **(new)** The optical waveguide fiber of claim 40, wherein the optical attenuation exhibited at a wavelength of about 1383 nm is at least 0.04 dB/km less than the optical attenuation exhibited at a wavelength of about 1310 nm.
- 42. **(new)** The optical waveguide fiber of claim 40, wherein the optical attenuation exhibited at a wavelength of about 1383 nm is less than or equal to about 0.35 dB/km.

- 43. **(new)** The optical waveguide fiber of claim 40, wherein the optical attenuation exhibited at a wavelength of about 1383 nm is less than or equal to about 0.31 dB/km.
- 44. **(new)** The optical waveguide fiber of claim 40, wherein the optical waveguide fiber exhibits an optical attenuation of less than about 0.36 dB/km at each wavelength within a wavelength range from about 1300 nm to about 1600 nm.
- 45. **(new)** The optical waveguide fiber of claim 40, wherein the core is doped with germania.
- 46. **(new)** The optical waveguide fiber of claim 40, wherein the optical waveguide fiber exhibits a zero dispersion at a wavelength greater than 1310 nm.
- 47. **(new)** The optical waveguide fiber of claim 17, wherein the optical waveguide fiber exhibits a maximum hydrogen induced attenuation change of less than about 0.03 dB/km at a wavelength of about 1383 nm after being subjected to a 0.01 atm hydrogen partial pressure for 336 hours.